



L-7174A (GP1-0032-D)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kustov, et al.)
Serial No.: 09/682,010) Group Art Unit: 1621
Filed: July 9, 2001) Before the Examiner:
For: PREPARATION OF CATALYSTS)
USEFUL IN THE PREPARATION)
OF PHENOL AND ITS DERIVATIVES)

GAL - 1621 #2

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In compliance with the duty to disclose, applicants herein apprise the Patent Office of prior art in a parent U.S. application from which this application obtains the benefit of an earlier filing date under 35 U.S.C. § 120. The Serial Number of the parent application is USSN 09/078,253 filed May 13, 1998 entitled PREPARATION OF PHENOL AND ITS DERIVATIVES. The publications cited therein are listed on attached Form PTO-1449.

I certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231 on	
September 6, 2001 (Date of Deposit)	
Tracy A. Sweatt (Name of Person Mailing Paper)	
Signature	09/06/01 Date

In accordance with 37 CFR § 1.98 (d) copies of the listed publications are not required.

Consideration of this Information Disclosure Statement is respectfully requested, since the Examiner may consider the information provided herein material to the patentability of the subject application as defined in 37 CFR § 1.56.

Since this Information Disclosure Statement is being filed within three months of the filing date of the subject application, no fee or certification under 37 CFR § 1.97 (e) is required.

However, in the event the Commissioner of Patents deems that any fee is required under 37 CFR §§ 1.16 and 1.17 in connection with this application, applicant's attorneys authorize that such fee be charged to Deposit Account No. 07-0862.

Respectfully submitted,

Kustov, et al.

CANTOR COLBURN LLP
Applicant's Attorneys

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 8CL-7174A/GP 032-D		SERIAL NO. 09/682,010	
				Leonid M. Kustov et al.			
				FILING 7/9/01		GROUP 1621	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,367,359	01/04/83	Kaeding			SEP 14 2001 TECH CENTER 1600/2900
		4,559,314	12/17/85	Shihabi			
		4,581,215	04/08/86	Kaeding			
		4,724,270	02/09/88	Chang et al.			
		4,950,829	08/21/90	Han et al.			
		4,982,013	01/01/91	Gubelmann et al.			
		5,001,280	03/19/91	Gubelmann et al.			
		5,055,623	10/08/91	Gubelmann et al.			
		5,110,995	05/05/92	Kharitonov et al.			
		5,672,777	09/30/97	Kharitonov et al.			
		5,808,167	09/15/98	McGhee			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		DE 19634406 A(ABS)	03/12/98	Germany			
		EP 0 068 755 A2	01/05/83	European			
		EP 0 134 331 A1	03/20/85	European			
		EP 0 302 636 A1	02/08/89	European			
		EP 0 568 913 A2	11/10/93	European			
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
		Uriarte, Anthony K., "Direct Hydroxylation of Benzene to Phenol by Nitrous Oxide", 3rd World Congress on Oxidation Catalysis, 21-26 Sept. 1997.					
		Zholobenko, V., "Preparation of Phenol over Dehydroxylated HZSM-5 Zeolites", Mendelev Comm. 1993, p. 28-29.					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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1621

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,849,257	12/15/98	Fujiwara et al.			
	5,892,132	04/06/99	Rooks et al.			
	6,255,539 B1	07/03/01	Uriarte et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	JP 56-77234 (ABS)	06/25/81	Japan				
	JP 56-87527 (ABS)	07/16/81	Japan				
	JP Applic. H9-194412	07/29/97	Japan				
	WO 95/27560	10/19/95	World				
	WO 95/27691	10/19/95	World				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Iwamoto, et al., "Catalytic Oxidation by Oxide Radical Ions", J. Phys. Chem., 1983, V. 87, No. 6, p. 903
	Sobolev, V., "Catalytic Properties of ZSM-5 Zeolites in N2 O Decompositon: The Role of Iron", Journal of Catalysis, 139, p. 435-43 (1993)

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER

DATE _____

COUNTRY

CLASS

SUBCLASS

TRANSLATION

YES	NO
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WO 98/25698

06/18/98

World

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Kharitonov, A.S., "Ferrisilicate Analogs of ZSM-5 Zeolite as Catalysts For One-Step Oxidation of Benzene to Phenol", *Applied Catalysis*, 98, p. 33-43 (1993)

Panov, G.I., "Oxidative Hydroxylation Using Dinitrogen Monoxide: A Possible Route for Organic Synthesis Over Zeolites", *Applied Catalysis*, 98, 1-20

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

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			<p>NOx Adsorption Complexes on Zeolites Containing Metal Cations and Strong Lewis Acid Sites and Their Reactivity in CO and CH₄ Oxidation: A Spectroscopic Study. Kustov, L.M., Smekalina, E.V.; Uvarova, E.B.; Kazansky, V.B. (N.D. Zelinsky Institute Organic Chemistry, Russian Academy Sciences, Moscow, 117334, Russia). Stud. Surf. Sci. Catal., 97 (Zeolites: A Refined Tool for Designing Catalytic Sites), 409-15 (English) 1995.</p>
			<p>The Role of Lewis Acid Sites in Adsorption and Activation of Oxygen in Redox Type Reactions on Zeolites. Zholobenko, V.L.; Kustov, L.M., Kazansky, V.B. (J.D. Zelinsky Institute of Organic Chemistry, Russian Academy Sciences, Moscow 117334, Russia). Proc. Int. Zeolite Conf., 9th, Meeting Date 1992, Volume 2, 299-307. Editor(s): Von Ballmoos, Ronald; Higgins, John B.; Treacy, Michael M.J. Butterworth-Heinemann: Boston, Mass. (English) 1993,</p>

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INFORMATION DISCLOSURE CITATION

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Docket Number (Optional)

8CL-7174A/GP 032-D

Application Number

09/682,019

Applicant(s)

Leonid M. Kustov et al.

Filing Date

7/9/01

Group Art Unit

1621

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Study of Active Centers for Oxidation of Benzene and Formation of Cation-Radicals in H-ZSM-5 Zeolites and Hordenite. Zholobenko, V.L.; Kustov, L.M.; Kazanskii, V.B. (Inst. Org. Khim. Im. Zelinskogo, Moscow, USSR. Kinet, Katal., 30(4), 901-5 (Russian) 1989. (Translation)

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"One-Step Benzene to Phenol (BTOP)" (literature), Marcos A. Cesar, 1998 PEP Client Conference, Redwood Shores, CA. May 2-5, 1998

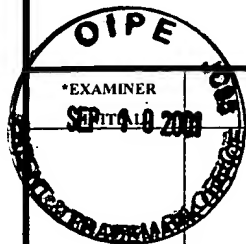
"One-Step Phenol Process Offers Higher Yield", Chementator, Edited by Ken Fouhy. Chemical Engineering/February 1997, pg. 15.

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